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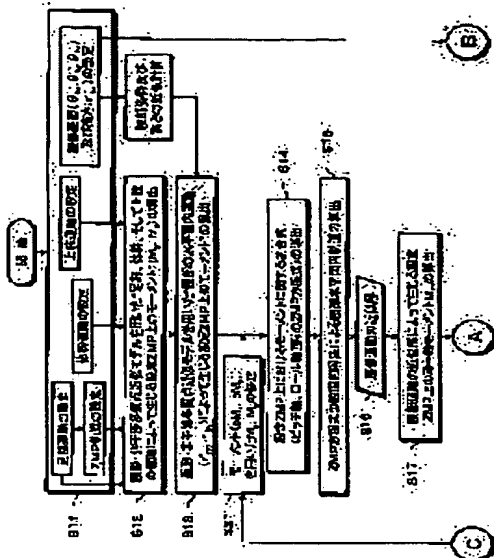
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(54) MOTION CONTROL DEVICE AND METHOD FOR LEG-TYPE MOVING ROBOT, AND ROBOT DEVICE



(57)Abstract:

PROBLEM TO BE SOLVED: To correctly drive a machine body while canceling the influence of the moment of a roll shaft, a pitch shaft and a yaw shaft applied to the machine body in the leg-type operation such as walking.

SOLUTION: The pitch shaft and/or roll shaft moment produced in the machine body of the robot on a determined ZMP produced by the motions of predetermined upper limbs, a spinal part and lower limbs is calculated, and the motion of the lower limbs and the spinal part for canceling the pitch shaft and/or roll shaft moment is determined. Then the yaw shaft moment produced on the machine body on the predetermined ZMP produced by the

calculated motion of the lower limbs and the spinal part is calculated to determine the motion of the upper limbs for canceling the yaw shaft moment.

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